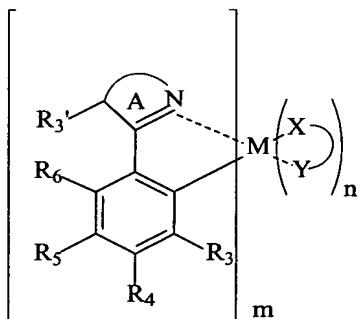


**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended) A compound having the structure:



wherein

M is a metal having an atomic weight greater than 40;

R<sub>3</sub>' is a substituent selected from the group consisting of alkyl, heteroalkyl, aryl, heteroaryl, and aralkyl, wherein R<sub>3</sub>' is optionally substituted by one or more substituents Z;

R<sub>5</sub> is a substituent selected from the group consisting of aryl and heteroaryl, wherein said aryl or heteroaryl is unsubstituted or optionally, substituted with one or more non-aromatic groups;

ring A is an aromatic heterocyclic or a fused aromatic heterocyclic ring with at least one nitrogen atom that is coordinated to the metal M, wherein the ring A can be optionally substituted with one or more substituents Z;

R<sub>3</sub>, R<sub>4</sub>, and R<sub>6</sub> is are each independently a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, perfluoroalkyl CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;

~~R<sub>4</sub> is a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;~~

additionally or alternatively alternatively, R<sub>3</sub> and R<sub>4</sub>, together from independently a fused 4 to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl; and wherein said cyclic group is optionally substituted by one or more substituents substituent Z;

R<sub>6</sub> is a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;

alternatively, R<sub>3</sub>' and R<sub>6</sub> may be bridged by a group selected from CR<sub>2</sub>-CR<sub>2</sub>, CR=CR, CR<sub>2</sub>, O, NR, O-CR<sub>2</sub>, NR-CR<sub>2</sub>, and N=CR;

each R is independently H, alkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, or aralkyl; wherein R is optionally substituted by one or more substituents Z;

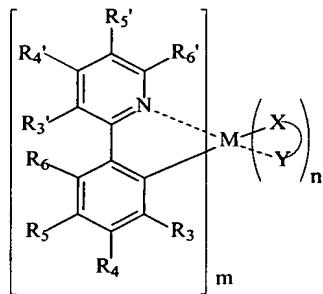
each Z is independently a halogen, R', O-R', N(R')<sub>2</sub>, SR', C(O)R', C(O)OR', C(O)N(R')<sub>2</sub>, CN, NO<sub>2</sub>, SO<sub>2</sub>, SOR', SO<sub>2</sub>R', or SO<sub>3</sub>R';

each Each R' is independently H, alkyl, perhaloalkyl, alkenyl, alkynyl, heteroalkyl, aralkyl, aryl, or heteroaryl;

(X-Y) is an ancillary ligand;

m is a value from 1 to the maximum number of ligands that may be attached to the metal; and m + n is the maximum number of ligands that may be attached to the metal.

Claim 2 (currently amended) The compound of claim 1, having the structure:



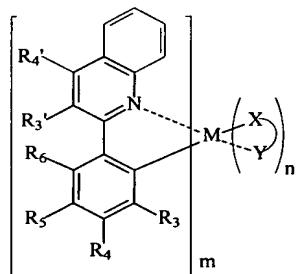
wherein

$R_4'$ ,  $R_5'$ , and  $R_6'$  are each independently H, alkyl, alkenyl, alkynyl, heteroalkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, aralkyl; and wherein  $R_4'$ ,  $R_5'$ , and  $R_6'$  are optionally substituted by one or more substituents Z; and

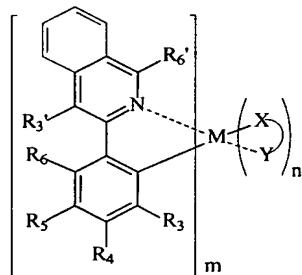
additionally or alternatively, any one or more of  $R_4'$  and  $R_5'$ , or  $R_5'$  and  $R_6'$ , or  $R_3$  and  $R_4$ , together form independently a fused 4- to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl; and wherein said cyclic group is optionally substituted by one or more substituent Z;

~~additionally or alternatively,  $R_3'$  and  $R_6$  are linked by a group having the formula:—  
 $CR_2- CR_2$ ,  $CR = CR$ ,  $CR_2$ , O, NR, O-CR<sub>2</sub>, NR-CR<sub>2</sub>, N=CR wherein R is selected from the group consisting of H, alkyl, aryl, and aralkyl.~~

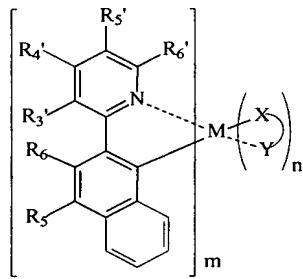
Claim 3 (original) The compound of claim 2, having the structure:



Claim 4 (original) The compound of claim 2, having the structure:



Claim 5 (original) The compound of claim 2, having the structure:

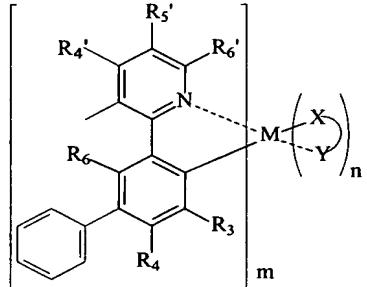


**Claim 6 (original)** The compound of claim 2, wherein R<sub>5</sub> is substituted or unsubstituted phenyl, naphthyl or pyridyl.

**Claim 7 (original)** The compound of claim 6, wherein R<sub>5</sub> is a phenyl.

**Claim 8 (original)** The compound of claim 6, wherein R'<sub>3</sub> is a methyl group.

**Claim 9 (original)** The compound of claim 2, having the structure:

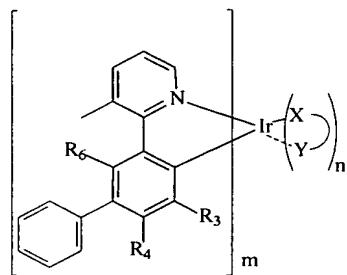


wherein R<sub>5</sub>' and R<sub>6</sub>' are H, and additionally or alternatively, together form a fused 4-to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl.

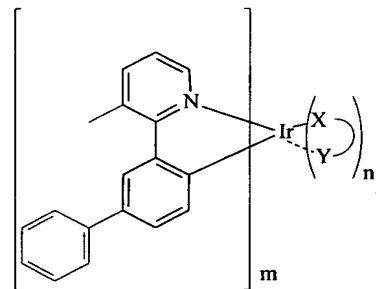
**Claim 10 (original)** The compound of claim 9, wherein M is selected from the group consisting of Ir, Pt, Pd, Rh, Re, Ru, Os, Tl, Pb, Bi, In, Sn, Sb, Te, Au, and Ag.

**Claim 11 (original)** The compound of claim 10, wherein M is Ir.

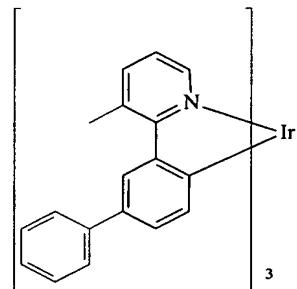
**Claim 12 (original)** The compound of claim 11, having the structure:



**Claim 13 (original)** The compound of claim 12, having the structure:

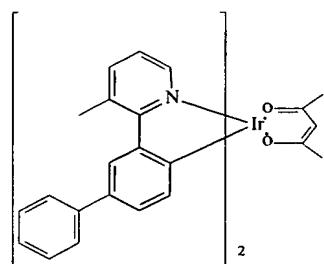


**Claim 14 (original)** The compound of claim 13, wherein m is 3 and n is zero, such that the compound has the structure:

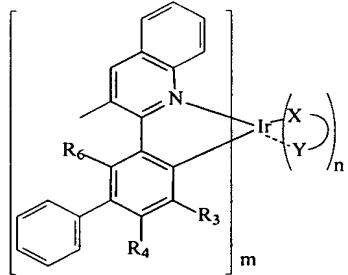


**Claim 15 (original)** The compound of claim 13, wherein m is 2 and n is 1.

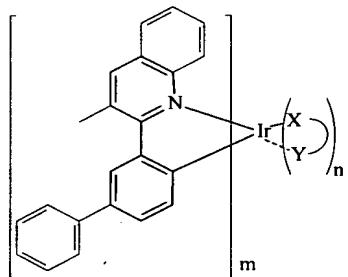
**Claim 16 (original)** The compound of claim 15, having the structure:



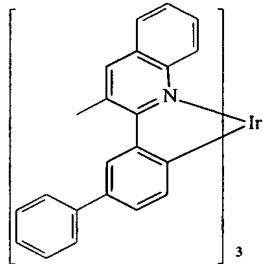
Claim 17 (original) The compound of claim 11, having the structure:



Claim 18 (original) The compound of claim 17, having the structure:

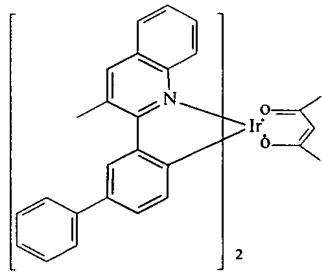


Claim 19 (original) The compound of claim 18, wherein m is 3 and n is zero, such that the compound has the structure:

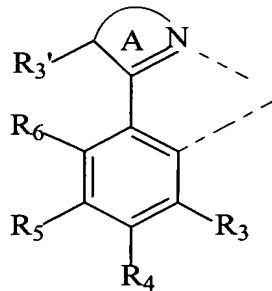


Claim 20 (original) The compound of claim 18, wherein m is 2 and n is 1.

Claim 21 (original) The compound of claim 20, having the structure:



Claim 22 (currently amended) A compound comprising a ligand having the structure:



wherein

~~M is a metal having an atomic weight greater than 40;~~

~~R<sub>3</sub>' is a substituent selected from the group consisting of alkyl, heteroalkyl, aryl, heteroaryl, and aralkyl, wherein R<sub>3</sub>' is optionally substituted by one or more substituents Z;~~

~~R<sub>5</sub> is a substituent selected from the group consisting of aryl and heteroaryl, wherein said aryl or heteroaryl is unsubstituted or optionally, substituted with one or more non-aromatic groups;~~

~~ring A is an aromatic heterocyclic or a fused aromatic heterocyclic ring with at least one nitrogen atom that is coordinated to the metal M, wherein the ring A can be optionally substituted with one or more substituents Z;~~

~~R<sub>3</sub>, R<sub>4</sub>, and R<sub>6</sub> is are each independently a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, perfluoroalkyl C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;~~

~~R<sub>4</sub> is a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;~~

~~additionally or alternatively alternatively, R<sub>3</sub> and R<sub>4</sub>, together from independently a fused 4 to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl; and wherein said cyclic group is optionally substituted by one or more substitutents Z;~~

~~R<sub>6</sub> is a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;~~

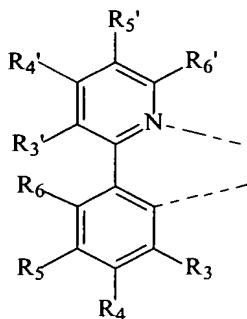
~~alternatively, R<sub>3</sub>' and R<sub>6</sub> may be bridged by a group selected from CR<sub>2</sub>-CR<sub>2</sub>, CR=CR, CR<sub>2</sub>, O, NR, O-CR<sub>2</sub>, NR-CR<sub>2</sub>, and N=CR;~~

~~each R is independently H, alkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, or aralkyl; wherein R is optionally substituted by one or more substituents Z;~~

~~each Z is independently a halogen, R', O-R', N(R')<sub>2</sub>, SR', C(O)R', C(O)OR', C(O)N(R')<sub>2</sub>, CN, NO<sub>2</sub>, SO<sub>2</sub>, SOR', SO<sub>2</sub>R', or SO<sub>3</sub>R';~~

~~each R' is independently H, alkyl, perhaloalkyl, alkenyl, alkynyl, heteroalkyl, aralkyl, aryl, or heteroaryl.~~

Claim 23 (currently amended) The compound of claim 22, wherein the ligand has the structure



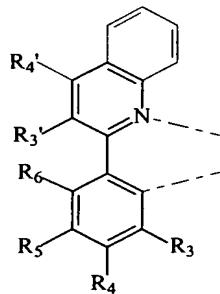
wherein

~~R<sub>4</sub>', R<sub>5</sub>', and R<sub>6</sub>' are each independently H, alkyl, alkenyl, alkynyl, heteroalkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, aralkyl; and wherein R<sub>4</sub>', R<sub>5</sub>', and R<sub>6</sub>' are optionally substituted by one or more substituents Z; and~~

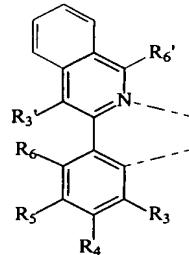
additionally or alternatively, any one or more of R<sub>4</sub>' and R<sub>5</sub>', or R<sub>5</sub>' and R<sub>6</sub>', or R<sub>3</sub> and R<sub>4</sub>, together form independently a fused 4- to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl; and wherein said cyclic group is optionally substituted by one or more substituent Z;

~~additionally or alternatively, R<sub>3</sub>' and R<sub>6</sub> are linked by a group having the formula: CR<sub>2</sub>-CR<sub>2</sub>, CR=CR, CR<sub>2</sub>, O, NR, O-CR<sub>2</sub>, NR-CR<sub>2</sub>, N=CR wherein R is selected from the group consisting of H, alkyl, aryl, and aralkyl.~~

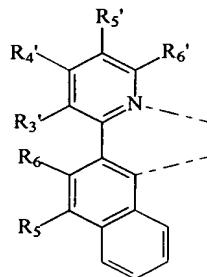
Claim 24 (original) The compound of claim 23, wherein the ligand has the structure:



Claim 25 (original) The compound of claim 23, wherein the ligand has the structure:



Claim 26 (original) The compound of claim 23, wherein the ligand has the structure:

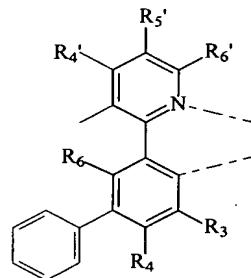


Claim 27 (original) The compound of claim 23, wherein R<sub>5</sub> is substituted or unsubstituted phenyl, naphthyl or pyridyl.

Claim 28 (original) The compound of claim 27, wherein R<sub>5</sub> is a phenyl.

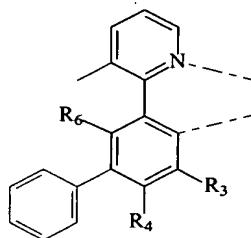
Claim 29 (original) The compound of claim 27, wherein R'3 is a methyl group.

Claim 30 (original) The compound of claim 23, wherein the ligand has the structure:

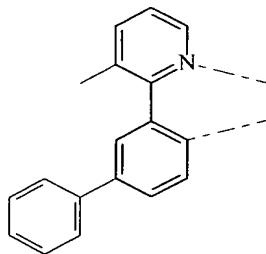


wherein R<sub>5</sub>' and R<sub>6</sub>' are H, and additionally or alternatively, together form a fused 4-to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl.

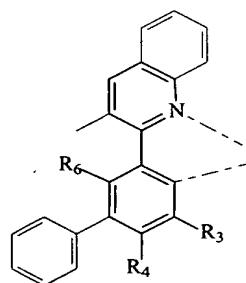
Claim 31 (original) The compound of claim 30, wherein the ligand has the structure:



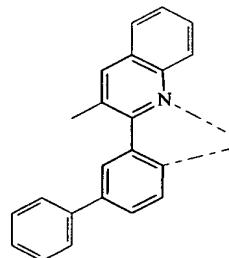
Claim 32 (original) The compound of claim 31, wherein the ligand has the structure:



Claim 33 (original) The compound of claim 30, wherein the ligand has the structure:

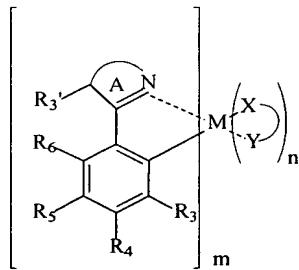


Claim 34 (original) The compound of claim 33, wherein the ligand has the structure:



Claim 35 (currently amended) An organic light emitting device, comprising:

- (a) an anode;
- (b) a cathode; and
- (c) an emissive layer disposed between the anode and the cathode, wherein the emissive layer comprises further comprising an emissive material having the structure:



wherein

M is a metal having an atomic weight greater than 40;

R<sub>3'</sub> is a substituent selected from the group consisting of alkyl, heteroalkyl, aryl, heteroaryl, and aralkyl, wherein R<sub>3'</sub> is optionally substituted by one or more substituents Z;

R<sub>5</sub> is a substituent selected from the group consisting of aryl and heteroaryl, wherein said aryl or heteroaryl is unsubstituted or optionally, substituted with one or more non-aromatic groups;

ring A is an aromatic heterocyclic or a fused aromatic heterocyclic ring with at least one nitrogen atom that is coordinated to the metal M, wherein the ring A can be optionally substituted with one or more non-aromatic groups;

R<sub>3</sub>, R<sub>4</sub>, and R<sub>6</sub> is are each independently a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, perfluoroalkyl CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;

R<sub>4</sub> is a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;

additionally or alternatively alternatively, R<sub>3</sub> and R<sub>4</sub>, together from independently a fused 4 to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl; and wherein said cyclic group is optionally substituted by one or more substitutents substituent Z;

R<sub>6</sub> is a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;

~~alternatively, R<sub>3</sub>' and R<sub>6</sub> may be bridged by a group selected from CR<sub>2</sub>-CR<sub>2</sub>, CR=CR, CR<sub>2</sub>=O, NR, O-CR<sub>2</sub>, NR-CR<sub>2</sub>, and N=CR;~~

each R is independently H, alkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, or aralkyl; wherein R is optionally substituted by one or more substituents Z;

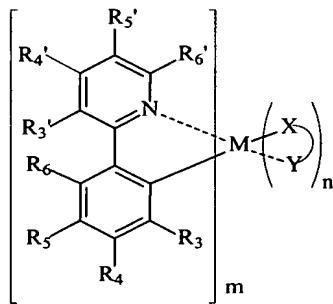
each Z is independently a halogen, R', O-R', N(R')<sub>2</sub>, SR', C(O)R', C(O)OR', C(O)N(R')<sub>2</sub>, CN, NO<sub>2</sub>, SO<sub>2</sub>, SOR', SO<sub>2</sub>R', or SO<sub>3</sub>R';

~~each~~ Each R' is independently H, alkyl, perhaloalkyl, alkenyl, alkynyl, heteroalkyl, aralkyl, aryl, or heteroaryl;

(X-Y) is an ancillary ligand;

m is a value from 1 to the maximum number of ligands that may be attached to the metal; and m + n is the maximum number of ligands that may be attached to the metal.

Claim 36 (currently amended) The device of claim 35, wherein the compound has the structure:



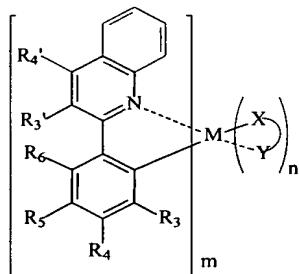
wherein

R<sub>4</sub>', R<sub>5</sub>', and R<sub>6</sub>' are each independently H, alkyl, alkenyl, alkynyl, heteroalkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, aralkyl; and wherein R<sub>4</sub>', R<sub>5</sub>', and R<sub>6</sub>' are optionally substituted by one or more substituents Z; and

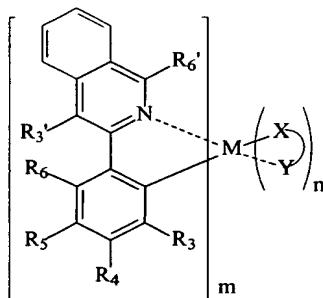
additionally or alternatively, any one or more of R<sub>4</sub>' and R<sub>5</sub>', or R<sub>5</sub>' and R<sub>6</sub>', or R<sub>3</sub> and R<sub>4</sub>, together form independently a fused 4- to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl; and wherein said cyclic group is optionally substituted by one or more substituent Z;

~~additionally or alternatively, R<sub>3</sub>' and R<sub>6</sub> are linked by a group having the formula: CR<sub>2</sub>-CR<sub>2</sub>, CR=CR, CR<sub>2</sub>, O, NR, O-CR<sub>2</sub>, NR-CR<sub>2</sub>, N=CR wherein R is selected from the group consisting of H, alkyl, aryl, and aralkyl.~~

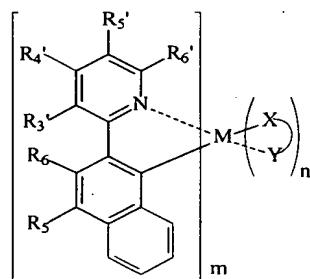
Claim 37 (original) The device of claim 36, wherein the compound has the structure:



Claim 38 (original) The device of claim 36, wherein the compound has the structure:



Claim 39 (currently amended) The device ~~material~~ of claim 36, wherein the compound has the structure:

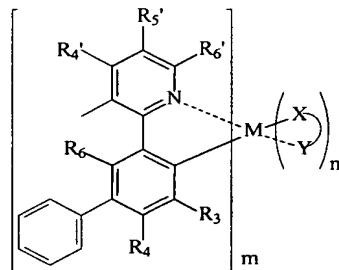


Claim 40 The device of claim 36, wherein R<sub>5</sub> is substituted or unsubstituted phenyl, naphthyl or pyridyl.

**Claim 41 (original)** The device of claim 40, wherein R<sub>5</sub> is a phenyl.

**Claim 42 (original)** The device of claim 40, wherein R'3 is a methyl group.

**Claim 43 (original)** The device of claim 36, wherein the compound has the structure:

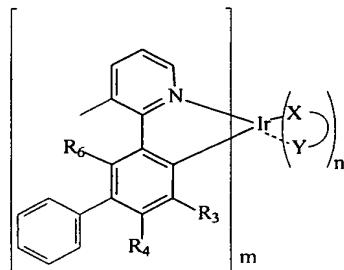


wherein R<sub>5'</sub> and R<sub>6'</sub> are H, and additionally or alternatively, together form a fused 4-to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl.

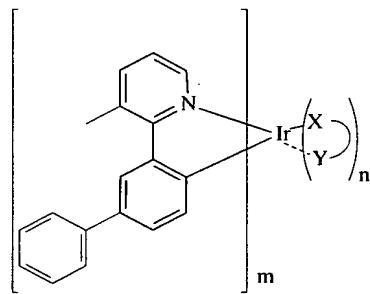
**Claim 44 (original)** The device of claim 43, wherein M is selected from the group consisting of Ir, Pt, Pd, Rh, Re, Ru, Os, Tl, Pb, Bi, In, Sn, Sb, Te, Au, and Ag.

**Claim 45 (original)** The device of claim 44, wherein M is Ir.

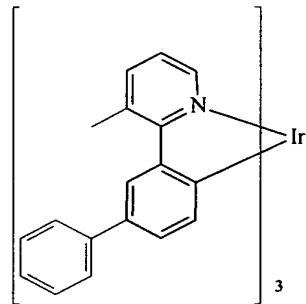
**Claim 46 (original)** The device of claim 45, wherein the compound has the structure:



**Claim 47 (original)** The device of claim 46, wherein the compound has the structure:

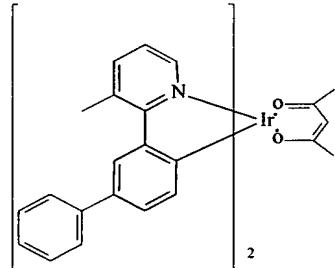


**Claim 48 (original)** The device of claim 47, wherein m is 3 and n is zero, such that the compound has the structure:

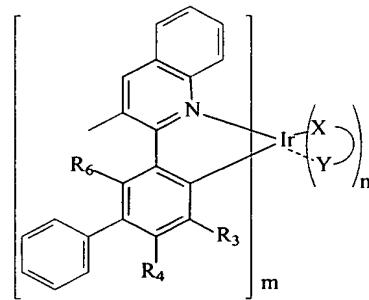


**Claim 49 (original)** The device of claim 47, wherein m is 2 and n is 1.

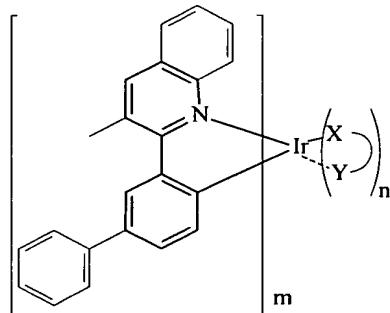
**Claim 50 (currently amended)** The device of claim 49, having wherein the compound has the structure:



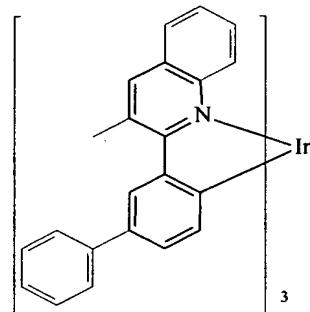
**Claim 51 (currently amended)** The device of claim 45, having wherein the compound has the structure:



Claim 52 (original) The device of claim 51, wherein the compound has the structure:

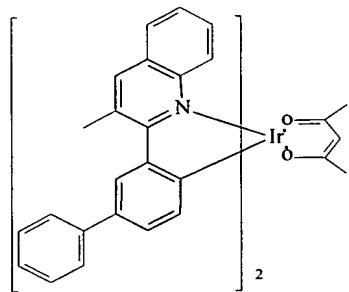


Claim 53 (original) The device of claim 52, wherein m is 3 and n is zero, such that the compound has the structure:



Claim 54 (original) The device of claim 52, wherein m is 2 and n is 1.

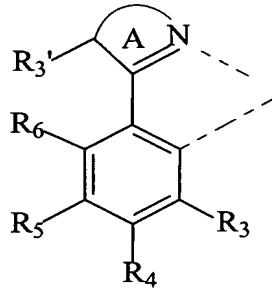
Claim 55 (currently amended) The device of claim 54, having wherein the compound has the structure:



**Claim 56 (original)** The device of claim 35, wherein the device is incorporated into a consumer product.

**Claim 57 (currently amended)** An organic light emitting device, comprising:

- (d) (a) an anode;
- (e) (b) a cathode; and
- (f) (c) an emissive layer disposed between the anode and the cathode,  
wherein the emissive layer comprises further comprising an emissive material  
 having a ligand with the structure:



wherein

~~M is a metal having an atomic weight greater than 40;~~

~~R<sub>3</sub>' is a substituent selected from the group consisting of alkyl, heteroalkyl, aryl, heteroaryl, and aralkyl, wherein R<sub>3</sub>' is optionally substituted by one or more substituents Z;~~

~~R<sub>5</sub> is a substituent selected from the group consisting of aryl and heteroaryl, wherein said aryl or heteroaryl is unsubstituted or optionally, substituted with one or more non-aromatic groups;~~

ring A is an aromatic heterocyclic or a fused aromatic heterocyclic ring with at least one nitrogen atom that is coordinated to the metal M, wherein the ring A can be optionally substituted with one or more substituents Z;

R<sub>3</sub>, R<sub>4</sub>, and R<sub>6</sub> is are each independently a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, perfluoroalkyl CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;

~~R<sub>4</sub> is a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;~~

additionally or alternatively alternatively, R<sub>3</sub> and R<sub>4</sub>, together from independently a fused 4 to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl; and wherein said cyclic group is optionally substituted by one or more substituents substituent Z;

~~R<sub>6</sub> is a substituent selected from the group consisting of H, alkyl, alkenyl, alkynyl, alkylaryl, CN, CF<sub>3</sub>, C<sub>n</sub>F<sub>2n+1</sub>, trifluorovinyl, CO<sub>2</sub>R, C(O)R, NR<sub>2</sub>, NO<sub>2</sub>, OR, halo, aryl, heteroaryl, substituted aryl, substituted heteroaryl or a heterocyclic group;~~

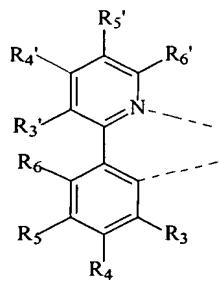
~~— alternatively, R<sub>3</sub> and R<sub>6</sub> may be bridged by a group selected from CR<sub>2</sub>—CR<sub>2</sub>, CR=CR, CR<sub>2</sub>—O—NR—O—CR<sub>2</sub>, NR—CR<sub>2</sub>, and N=CR;~~

each R is independently H, alkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, or aralkyl; wherein R is optionally substituted by one or more substituents Z;

each Z is independently a halogen, R', O-R', N(R')<sub>2</sub>, SR', C(O)R', C(O)OR', C(O)N(R')<sub>2</sub>, CN, NO<sub>2</sub>, SO<sub>2</sub>, SOR', SO<sub>2</sub>R', or SO<sub>3</sub>R';

each R' is independently H, alkyl, perhaloalkyl, alkenyl, alkynyl, heteroalkyl, aralkyl, aryl, or heteroaryl.

Claim 58 (currently amended) The device of claim 57, wherein the ligand has the structure



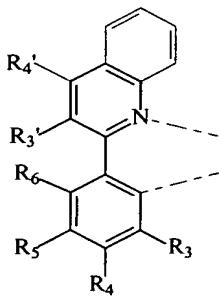
wherein

$R_4'$ ,  $R_5'$ , and  $R_6'$  are each independently H, alkyl, alkenyl, alkynyl, heteroalkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, aralkyl; and wherein  $R_4'$ ,  $R_5'$ , and  $R_6'$  are optionally substituted by one or more substituents Z; and

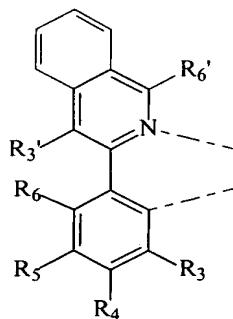
additionally or alternatively, any one or more of  $R_4'$  and  $R_5'$ , or  $R_5'$  and  $R_6'$ , or  $R_3$  and  $R_4$ , together form independently a fused 4- to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl; and wherein said cyclic group is optionally substituted by one or more substituent Z;

~~additionally or alternatively,  $R_3'$  and  $R_6$  are linked by a group having the formula:~~  
 ~~$CR_2-CR_2$ ,  $CR=CR$ ,  $CR_2-$ ,  $O-$ ,  $NR-$ ,  $O-CR_2$ ,  $NR-CR_2$ ,  $N=CR$  wherein R is selected from the group consisting of H, alkyl, aryl, and aralkyl.~~

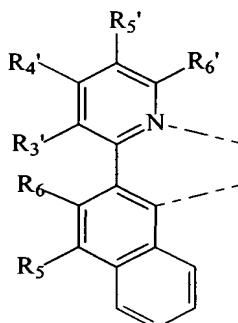
Claim 59 (original) The device of claim 58, wherein the ligand has the structure:



Claim 60 (original) The device of claim 58, wherein the ligand has the structure:



Claim 61 (original) The device of claim 58, wherein the ligand has the structure:

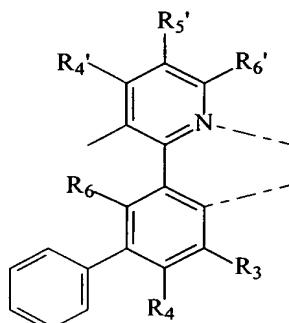


Claim 62 (original) The device of claim 58, wherein R<sub>5</sub> is substituted or unsubstituted phenyl, naphthyl or pyridyl.

Claim 63 (original) The device of claim 62, wherein R<sub>5</sub> is a phenyl.

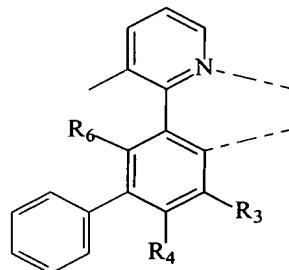
Claim 64 (original) The device of claim 62, wherein R'<sub>3</sub> is a methyl group.

Claim 65 (original) The device of claim 58, wherein the ligand has the structure:

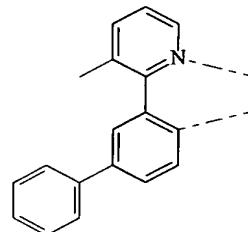


wherein R<sub>5'</sub> and R<sub>6'</sub> are H, and additionally or alternatively, together form a fused 4-to 7-member cyclic group, wherein said cyclic group is cycloalkyl, cycloheteroalkyl, aryl, or heteroaryl.

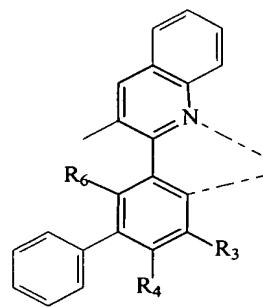
**Claim 66 (original)** The device of claim 65, wherein the ligand has the structure:



**Claim 67 (original)** The device of claim 66, wherein the ligand has the structure:



**Claim 68 (original)** The device of claim 65, wherein the ligand has the structure:

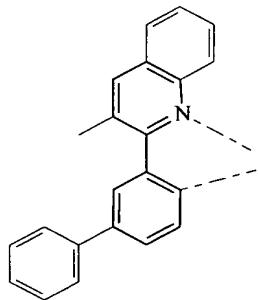


**Claim 69 (original)** The device of claim 68, wherein the ligand has the structure:

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Claim 70 (original) The device of claim 57, wherein the device is incorporated into a consumer product.